



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO040841	ACI001-VC	6	1	Net 30	MT-BRONZE-C63000-R2.500	Bronze C63000 Round Bar 2.500" ^{min} ; MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463				2	8/31/2018	2		S110450	Stock	9/17/2018	\$ 284.48 / ft	0		\$568.95	Acier Ouellette Inc.	
Total:										2		2									\$436.96	

Plex 9/17/2018 8:10 AM dart.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040841

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040841
PO Date: 8/24/18
Due Date: 8/31/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: quote no. SOU0127397

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4		M304B0.625X3.000		304 Bar .625 X 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	8/31/18	6 ft	0 ft 12.917 ft	6 ft	\$45.155/ft	\$270.93
6		MT-BRONZE-C63000-R2.500		Bronze C63000 Round Bar 2.500" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	-	8/31/18	2 ft	0 ft 2 ft	2 ft	\$284.475/ft	\$568.95
8		MT-4140-R4.500		AISI 4140 Round Bar 4.500 Dia. : MATERIAL: AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc SPECIFICATION: ASTM A29, AMS 6349, AMS 6382,	Firmed	-	8/31/18	3 ft	0 ft 3 ft	3 ft	\$94.4666/ft	\$283.40



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PURCHASE ORDER PO040841

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
				AMS 6529								
9		M304S16GA		304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	-	8/31/18	160 sf	0 sf	160 sf	\$7.71619/sf	\$1,234.59
Grand Total:												\$2,357.87

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 8/28/18 4:04 PM dart.baker.diane



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040841**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040841

PO Date: 8/24/18

Due Date: 8/31/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quote no. SOU0127397, SOU0129169

REVISED

E-MAILED
AUG 29 2018

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4		M304B0.625X3.000		304 Bar .625 X 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	8/31/18	12 ft	0 ft	12 ft	\$37.960833/ft	\$455.53
6		MT-BRONZE- C63000-R2.500		Bronze C63000 Round Bar 2.500" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	-	8/31/18	2 ft / 2ft	0 ft	2 ft At 18/04/17	\$284.475/ft	\$568.95

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8		MT-4140-R4.500		AISI 4140 Round Bar 4.500 Dia. : MATERIAL: AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529	Firmed	-	8/31/18	3 ft	0 ft	3 ft	\$94.4666/ft	\$283.40
											Grand Total: \$1,307.88	

Order Notes

Procurement Quality Clauses

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A012 chemical and physical test report
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Plex 8/29/18 1:40 PM dart.lavoie.chantal

106436
ISO 9001 2015
AS 9100 Rev. D

Dart
Uba
19134N
(2)
LEBRONZE ALLOYS UK LTD

TEST CERTIFICATE

EN 10204:2004 3.1

lebronze alloys | UK bolton

	TEST CERTIFICATE No	L36889 Rev : 0
	SERIAL / BATCH / LOT No	L36889
	CUSTOMER ORDER No	5400374044-R05
	WORKS ORDER No	S43581

SPECIFICATIONS

ASTM B150-12(2017) C63000 HR50 (HIGH STRENGTH)
QQ-C-465B AMD1 C63000 HIGH STRENGTH
AMS 4640H 2011

DESCRIPTION

CA18 2.5IN Round 144IN Machined Rod (MR)
Nickel Aluminium Bronze

WEIGHT ORDERED (Kg) 907

WEIGHT DESPATCHED (Kg) 802

MECHANICAL / PHYSICAL PROPERTIES

Tensile Specification	Heat No	Dia d	Area So	0.5% Yield Strength E.U.L	U.T.S. Rm	Elongation 4D	Hardness
ASTM E8 16a →		mm	mm2	Ksi	Ksi	%	HBW10/3000
	H2815	12.53	123.31	64.1	111.1	24.9	223
		12.51	122.91	64.5	112.0	25.1	223
	T4487	12.50	122.72	62.1	112.3	16.0	217
		12.46	121.93	61.1	112.0	16.4	217
	Min			55.0	105.0	10	187
	Max			n/a	n/a	n/a	241

CHEMICAL COMPOSITION

Heat No	Zn	Fe	Mn	Al	Ni	Sn	Pb	Si	Cu+Ag	Ni+Co	Weight (Kg)
H2815	0.08	3.74	0.32	9.84	4.71	0.02	<0.01	0.05	BAL	4.71	264
T4487	0.04	3.75	0.29	9.89	4.84	0.01	<0.01	0.05	BAL	4.85	538
Min	-	2.00	-	9.00	4.00	-	-	-	-	4.00	
Max	0.30	4.00	1.50	11.00	5.50	0.20	0.50	0.25	BAL	5.50	

REMARKS

Residual stress test satisfactory
Extruded Drawn and stress relieved
Country of Melt and Manufacture is UK
No Weld Repairs
Part # CURD00449

We certify that material is free from mercury contamination

Signed for on behalf of
LEBRONZE ALLOYS UK LTD




Inspection Manager : S.Sutton

Signed : 22 Mar 2018

Printed : 26 Mar 2018

Lebronze Alloys UK Ltd

New Way, Hadleigh Road, Ipswich, SUFFOLK, IP2 0BD
Tel: 01473 252 127 Fax: n/a
Email: sales@boltonmetals.com
Company Reg. No.: 1650805

LEBRONZE ALLOYS UK LTD
CERT OF CONFORMITY
AND/OR APPROVED CERTIFICATE

lebronze alloys | UK bolton

CUSTOMER

	TEST CERTIFICATE No	L36889 Rev : 0
	SERIAL / BATCH / LOT No	L36889
	CUSTOMER ORDER No	5400374044-R05
	WORKS ORDER No	S43581
	CERT OF CONFORMITY	L36889

SPECIFICATIONS

ASTM B150-12(2017) C63000 HR50 (HIGH STRENGTH)
 QQ-C-465B AMD1 C63000 HIGH STRENGTH
 AMS 4640H 2011

DESCRIPTION

CA18 2.5IN Round 144IN Machined Rod (MR)
 Nickel Aluminium Bronze

WEIGHT ORDERED (Kg)	907
WEIGHT DESPATCHED (Kg)	802

REMARKS / CONDITION OF MATERIAL :

DEVIATIONS, e.g. Major Concessions or Production Permit :

The products to which this declaration relates conform to the conditions and requirements of the purchaser and to the description, quantity and specification stated. These products have been produced under a certified quality system. The test results have been determined by an assessed or accredited laboratory

ISO 9001 2015, AS 9100 Rev.D

Signed for on behalf of
 LEBRONZE ALLOYS UK LTD

Inspection Manager : S.Sutton

Signed : 22 Mar 2018

Printed : 26 Mar 2018

Date

9/4/18

Customer Acier Ouellette

These Tests Are For Material Shipped On

Your Order AL00019134

From Copper And Brass Sales, Inc.

INV/WO 1403770250

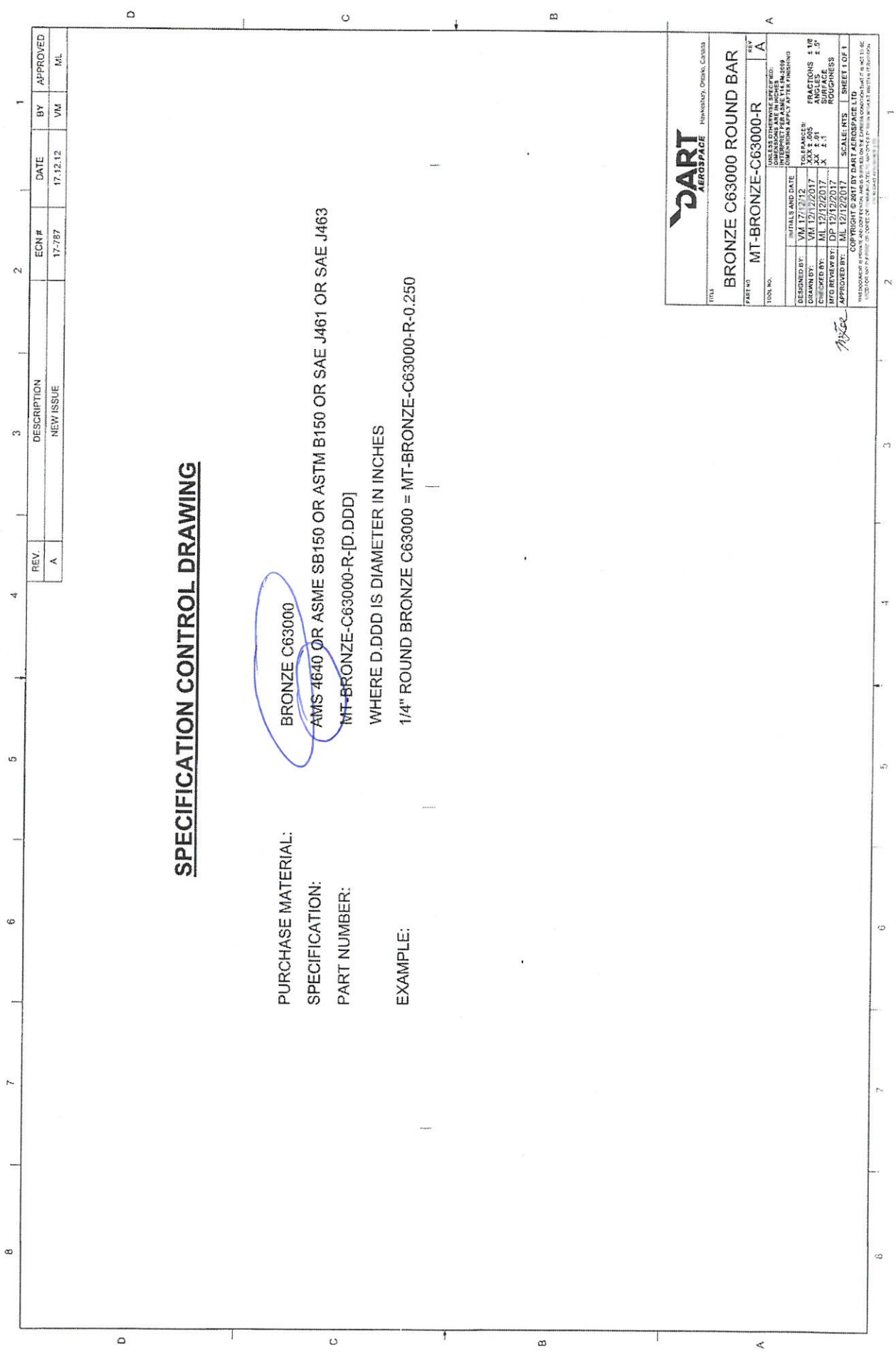
WGT 31.732 #

PCS 1pc5

QC

Lebronze Alloys UK Ltd

New Way, Hadleigh Road, Ipswich, SUFFOLK, IP2 0BD
 Tel: 01473 252 127 Fax: n/a
 Email: sales@boltonmetals.com
 Company Reg. No.: 1650805



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

BRONZE C63000

AMS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463

MT-BRONZE-C63000-R-[D.DDD]

WHERE D.DDD IS DIAMETER IN INCHES

1/4" ROUND BRONZE C63000 = MT-BRONZE-C63000-R-0.250

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-787	17.12.12	VM	ML

DART AEROSPACE		Markham, Ontario, Canada	
TITLE BRONZE C63000 ROUND BAR			
PART NO.	MT-BRONZE-C63000-R	REV.	A
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING			
DESIGNED BY:	VM 17/12/12	TOLERANCES:	
DRAWN BY:	VM 12/12/2017	XXX ± .005	
CHECKED BY:	ML 12/12/2017	XX ± .01	
APPROVED BY:	ML 12/12/2017	X ± .1	
MATERIALS		FINISHES	
MT-BRONZE-C63000-R		SURFACE	
SCALE: NTS		ROUGHNESS	
SHEET 1 OF 1			
THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE. IT IS TO BE USED FOR THE PURPOSES OF THE ORDER ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-BRONZE-63000-R2.500

PO / BATCH NO.: P0010841 / S110450

DATE: 18/09/17

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 2.500"

QUANTITY RECEIVED: 254

THICKNESS RECEIVED: 2.500"

QUANTITY INSPECTED: 254

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	AMS 4640
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	LT: 74487
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/09/17</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in